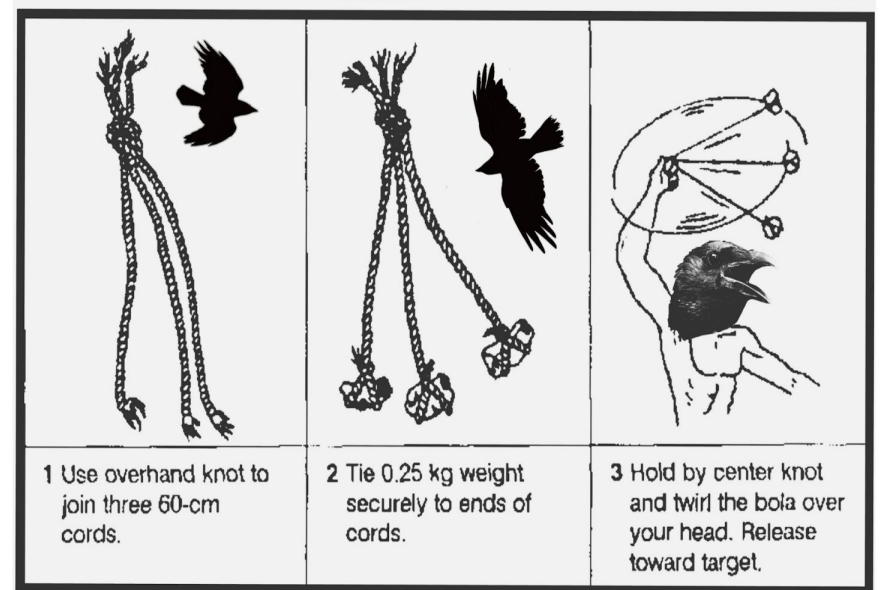




**TO REVOLT IS
A NATURAL
TENDENCY OF
LIFE**

Against Civilization



A few readings and reflections on anti-civ thought.

Nature, what is left of it, that is, serves as a bitter reminder of how deformed, non-sensual, and fraudulent is contemporary existence. The death of the natural world and the technological penetration of every sphere of life, what is left of it, proceed with an accelerating impetus. Wired, Mondo 2000, zippies, cyber-everything, virtual reality, Artificial Intelligence, on and on, up to and including Artificial Life, the ultimate postmodern science.

Meanwhile, however, our “post-industrial” computer age has resulted in the fact that we are more than ever “appendages to the machine,” as the 19th century phrase had it. Bureau of Justice statistics (7/94), by the way, report that the increasingly computer-surveilled workplace is now the setting for nearly one million violent crimes per year, and that the number of murdered bosses has doubled in the past decade.

This hideous arrangement expects, in its arrogance, that its victims will somehow remain content to vote, recycle, and pretend it will all be fine. To employ a line from Debord, “The spectator is simply supposed to know nothing and deserve nothing.”

Civilization, technology, and a divided social order are the components of an indissoluble whole, a death-trip that is fundamentally hostile to qualitative difference. Our answer must be qualitative, not the quantitative, more-of-the-same palliatives that actually reinforce what we must end.

in Anti-Authoritarians Anonymous flier, Eugene,
1995

Lynn Clive: “Birds Combat Civilization” (1985)

Chellis Glendinning: My Name is Chellis and I’m in Recovery from Western Civilization (1994)

Barbara Mor: Here: a small history of a mining town in the american southwest: warren bisbee az (1985)

Unabomber (a.k.a. “FC”): “Industrial Society and Its Future” (1995)

Anti-Authoritarians Anonymous: “We Have To Dismantle All This” (1995)

anxiety caused by a life-world ever more shriveled and unfulfilling. The ruling order will evidently go to any lengths to deny social reality; its techno-psychiatry views human suffering as chiefly biological in nature and genetic in origin.

New strains of disease, impervious to industrial medicine, begin to spread globally while fundamentalism (Christian, Judaic, Islamic) is also on the rise, a sign of deeply-felt misery and frustration. And here at home New Age spirituality (Adorno's "philosophy for dunces") and the countless varieties of "healing" therapies wear thin in their delusional pointlessness. To assert that we can be whole/enlightened/healed within the present madness amounts to endorsing the madness.

The gap between rich and poor is widening markedly in this land of the homeless and the imprisoned. Anger rises and massive denial, cornerstone of the system's survival, is now at least having a troubled sleep. A false world is beginning to get the amount of support it deserves: distrust of public institutions is almost total. But the social landscape seems frozen and the pain of youth is perhaps the greatest of all. It was recently announced (10/94) that the suicide rate among young men ages 15 to 19 more than doubled between 1985 and 1991. Teen suicide is the response of a growing number who evidently cannot imagine maturity in such a place as this.

The overwhelmingly pervasive culture is a fast-food one, bereft of substance or promise. As Dick Hebdige aptly judged, "the postmodern is the modern without the hopes and dreams that made modernity bearable." Postmodernism advertises itself as pluralistic, tolerant, and nondogmatic. In practice it is a superficial, fast-forward, deliberately confused, fragmented, media obsessed, illiterate, fatalistic, uncritical excrescence, indifferent to questions of origins, agency, history or causation. It questions nothing of importance and is the perfect expression of a setup that is stupid and dying and wants to take us with it.

Our postmodern epoch finds its bottom-line expression in consumerism and technology, which combine in the stupefying force of mass media. Attention-getting, easily-digested images and phrases distract one from the fact that this horror-show of domination is precisely held together by such entertaining, easily digestible images and phrases. Even the grossest failures of society can be used to try to narcotize its subjects, as with the case of violence, a source of endless diversion. We are titillated by the representation of what at the same time is threatening, suggesting that boredom is an even worse torment than fear.

Lynn Clive: "Birds Combat Civilization" (1985)

Humankind truly was not meant to fly, and birds keep trying to tell us so. As people and their flying machines continue to overpopulate the skies, not only do plane-to-plane collisions increase, but bird to plane collisions drastically increase as well, especially since new technology has created sleeker and quieter engines which sneak up on birds and scarcely give them any warning of their approach. Needless to say, it is the birds which must attempt to change their natural flight patterns to avoid fatal collisions.

Seagulls have become a particularly confounding nuisance to airport officials in Michigan. As their natural feeding grounds along the Great Lakes become more and more polluted, they drift inland. Wet runways peppered with worms and grasshoppers provide a perfect new feeding ground for seagulls. Cherry Capital Airport near Traverse City has reported large flocks of seagulls, as many as 150 at a time.

Approximately 1,200 plane-bird collisions occur each year, causing \$2030 million in damage. Such collisions prove fatal for the birds, of course; however, they have also been responsible for many aircraft crashes fatal to human beings. Sixty-two people were killed in 1960 near Boston when a propeller-driven plane sucked in several starlings and lost power.

Birds seem to be waging all-out war against the U.S. Air Force. In 1983, it reported 2,300 bird collisions; and 300 of these each caused more than \$1,000 in damage. This past summer in Great Britain, a U.S. Air Force crew was forced to bail out of their F-111 jet when a 12-pound goose smashed into the protective covering on the nose of the jet. The jet, worth \$30.9 million, is now quietly at rest on the bottom of the North Sea.

So what does civilized man do to combat the situation? In Traverse City, airport employees run around the airfield chasing gulls away with "cracker shells" fired from shotguns. They play tapes on loudspeakers of the cries of wounded seagulls, and they're considering putting up hawk silhouettes to see if that might do the trick. Someone has invented something called a "chicken gun" or a "rooster booster" which hurls four-pound chicken carcasses into the windshields of aircraft at speeds over 500 mph to test their strength against bird collisions. These tests are presently taking place on Air Force jets.

BASH (Bird Air Strike Hazard Team) was organized by the U.S. Air Force in 1975 after three F-111 jets were lost due to bird collisions. This team, made up of Air Force biologists, travels to U.S. bases around the world, targeting bird troublespots and trying to come up with innovative ideas (like the rooster booster) to deal with the problem.

Modern industrial-technological civilizations are based on and geared to the destruction of the natural order. They pollute the air and feeding grounds of wildlife; they chase birds from the skies. They construct buildings like the Renaissance Center in Detroit with mirror-like reflective shells which confuse birds and cause them to crash into them.

As our buildings grow taller and as we fly higher and higher, as we overpopulate our skies with our deadly contrivances, we lose sight of our true and now former place on the earth. We myopically look only at tomorrow. We can marvel at the exquisite beauty of a single bird through a pair of binoculars and then, with the same eye, turn and marvel at a newly constructed skyscraper or a supersonic jetman's artifices which are responsible for killing flocks of such birds.

If anyone were to suggest to the BASH team that the best way to stop bird-plane collisions would be to stop flying altogether, they would, of course, think you insane or perhaps "birdbrained." But what is so bad about bird brains? If we acknowledge the message our bird cousins are sending us, maybe it isn't such a bad idea after all.

in Fifth Estate, Summer 1985, p. 6



and mental qualities to a significant extent (possibly to a very great extent) will be those that are engineered into them rather than being the results of chance (or of God's will, or whatever); and whatever may be left of wild nature will be reduced to remnants preserved for scientific study and kept under the supervision and management of scientists (hence it will no longer be truly wild). In the long run (say a few centuries from now) it is likely that neither the human race nor any other important organisms will exist as we know them today, because once you start modifying organisms through genetic engineering there is no reason to stop at any particular point, so that the modifications will probably continue until man and other organisms have been utterly transformed.

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Whatever else may be the case, it is certain that technology is creating for human beings a new physical and social environment radically different from the spectrum of environments to which natural selection has adapted the human race physically and psychologically. If man is not adjusted to this new environment by being artificially reengineered, then he will be adapted to it through a long and painful process of natural selection. The former is far more likely than the latter.

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It would be better to dump the whole stinking system and take the consequences.

Anti-Authoritarians Anonymous: "We Have To Dismantle All This" (1995)

The unprecedented reality of the present is one of enormous sorrow and cynicism, "a great tear in the human heart," as Richard Rodriguez put it. A time of ever-mounting everyday horrors, of which any newspaper is full, accompanies a spreading environmental apocalypse. Alienation and the more literal contaminants compete for the leading role in the deadly dialectic of life in divided, technology-ridden society. Cancer, unknown before civilization, now seems epidemic in a society increasingly barren and literally malignant.

Soon, apparently, everyone will be using drugs; prescription and illegal becoming a relatively unimportant distinction. Attention Deficit Disorder is one example of an oppressive effort to medicalize the rampant restlessness and

two postal workers devised a combination stamp and postmark for the local mail. Using sponges soaked in blood from the bathroom tap, they dipped and affixed their bloody thumbprints to the top righthand corner of every envelope dropped through their slots. Unfortunately, town residents had little to say to each other, by mail or otherwise; the post office closed. Eventually the postal workers were reemployed as trash burners at the dumpsite east of town. They now shovel great white and red heaps of paper products into the flames, blood-saturated napkins, tablecloths and medical gowns that smoulder and crackle thickly throughout the night, releasing a stench similar to burning corpse flesh; which, of course, everyone has grown used to.

From its experience, the town has learned something profound about the nature of its own will, as of the mysterious hidden resources of the Earth. Deeper and deeper, as it had descended into the dark downward and abyss not solely of time but of its own evolution, what it had dug with its historic fingers from this soiled Hole, so to speak, was an implacable knowledge others could profit from, if others would: That the inexorable becomes the simply inextricable, and thus the normal; and vice versa. If only beings strive to make it so. The question of whose blood is never raised. Nor, if the hole extends through the globe to China, could it be Communist blood? Intellectual quibbling is extraneous to the town's experience of itself.

Some beings from the outside have called the Pit a Living Wound, citing the bloodflow as a strong proof. But morbid and negative metaphors do not make the world turn; as gears do, for example, or ball bearings. Or as now, the mining of blood.

1985

Unabomber (a.k.a. "FC"): "Industrial Society and Its Future" (1995)

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Needless to say, the scenarios outlined above do not exhaust all the possibilities. They only indicate the kinds of outcomes that seem to us most likely. But we can envision no plausible scenarios that are any more palatable than the ones we've just described. It is overwhelmingly probable that if the industrial-technological system survives the next 40 to 100 years, it will by that time have developed certain general characteristics: Individuals (at least those of the "bourgeois" type, who are integrated into the system and make it run, and who therefore have all the power) will be more dependent than ever on large organizations; they will be more "socialized" than ever and their physical

Chellis Glendinning: My Name is Chellis and I'm in Recovery from Western Civilization (1994)

The emergence of this infirmity had been a long time coming, in slow and continual evolution ever since the initiation of a psychic and ecological development some ten thousand years before. This historic development, the launching of the neolithic, was an occurrence that began penetrating the human mind the moment we purposefully isolated domestic plants from natural ones, the moment we captured beasts from their homes in the wild and corralled them into human-built enclosures. Previous to this event humans had indeed participated in the evolution of the natural world carrying seeds, through the wilderness, dropping, scattering, or planting them, returning later to harvest them; hunting animals by building branch and rock obstructions; catching fish and insects; constructing temporary shelters out of rock, trees, and ice. But this development was something different, something unprecedented. This was the purposeful separation of human existence from the rest of life: the domestication of the human species. To Paul Shepard's mind, the original dualism - the tame/wild dichotomy - came into being, and with it, the elliptical wholeness of the world was clipped.

The fence was the ultimate symbol of this development. What came to reside within its confines domesticated cereals, cultivated flowers, oxen, permanent housing structures was said to be tame; to be valued, controlled, and identified with. What existed outside was wild "weeds," weather, wind, the woods perennially threatening human survival; to be feared, scorned, and kept at bay. This dichotomy has since crystallized and come to define our lives with the myriads of fences separating us from the wild world and the myriads of fence-like artifacts and practices we have come to accept as "the way things are": economic individualism, private property, exclusive rights, nation-states, resource wars, nuclear missiles until today our civilization has nearly succeeded at domesticating the entire planet and is looking, in the near future, to enclose both the outer space of other planets and the inner space of our own minds, genes, and molecules.

"Separation," writes feminist philosopher Susan Griffin of this phenomenon. "The clean from the unclean. The decaying, the putrid, the polluted, the fetid, the eroded, waste, defecation, from the unchanging. The errant from the city. The ghetto. The ghetto of Jews. The ghetto of Moors. The quarter of prostitutes. The ghetto of blacks. The neighborhood of lesbians. The prison. The witch house. The underworld. The underground. The sewer. Space divided. The inch. The foot. The mile. The boundary. The border. The nation.

The promised land. The chosen ones. The prophets, the elect, the vanguard, the sanctified, the canonized, and the Canonizers.”

In the psychotherapeutic process, one assumption mental-health professionals consistently make is that whatever behavior, feeling, or state of consciousness a person experiences, expresses, or presents exists for a reason. A good reason. If you and I were given the task of acting as psychotherapists for this domesticated world, we would immediately focus our attention on the “presenting symptom” of separation and divisiveness. We might wonder if the overwhelming success of linear perspective as the sole definition of visual reality isn’t a symptom of some deeper condition seeking expression. And we might ask: why did some humans create and then rationalize with elaborate devices, ideologies, and defenses an unprecedented way of seeing the world that is based on distancing and detachment?

For a clue, we might look to survivors of post-traumatic stress disorder: Vietnam veterans, rape victims and survivors of childhood abuse, sufferers of both natural and technology-induced disasters. One of the most common symptoms to manifest itself after the experience of trauma is the neurophysiological response of disembodiment “leaving one’s body” to escape from pain that is literally too overwhelming to bear. Some people who have endured traumatic events, in describing the experience, tell of a sensation of “lifting out of their bodies,” of watching the event from a vantage point slightly above, a vantage point not unlike that of linear perspective. Others tell of escaping into a post-trauma state of mental activity devoid of feeling or body awareness, a state not unlike that considered “normal” in today’s dominant culture and taught in our schools and universities.

As psychotherapists, we might eventually wonder and ask: could it be that our very culture splits mind from body, intellect from feeling, because we as individuals are suffering from post-traumatic stress?

Could it be that we as individuals are dissociated because we inhabit a culture that is founded on and perpetrates traumatic stress?

Could it be that the linear perspective that infuses our vision from our glorification of intellectual distancing to our debunking of the earthier realms of feeling and intuition; to our relentless “lifting” upward with skyscrapers and space shuttles; to the ultimate techno-utopian vision of “downloading” human knowledge into self-perpetuating computers to make embodied life obsolete that such a perception is the result of some traumatic violation that happened in our human past?

scrawls. And the air was saturated with a thick odor, unlike all others; Dobermans guarding the town’s five mansions howled day and night, an incessant whining that became invisible, inaudible as the voice of everything and everyone.

It soaked the rolling hills, pushing gelatinous clots to the surface of coarse dirt. Cracks in the sidewalks filled with red, cement and dust lots permeated with red stains. Red flowing gutters, the flood ditches awash with red. Citizens sprayed driveways and garages with lawn hoses, trying to prevent the disfigurement of cars. But the blood seeped everywhere, and the arroyos surrounding the town were as open veins. Trees and bushes began to suck up the red fluid from their roots, as did the porous walls of the great houses. Within five days it had entered the town’s water supply. A mine manager, sprinkling his front lawn in the summer evening of a dry day, turned his hose on a little garden patch of cacti, oleander and budding agave. The black-flecked water spraying out suddenly turned to rust, clogged, and then with explosive force began pouring a stream of pure blood. With the mental control of an executive he continued spraying plants, a perfect, silent adjustment to this final change, as the red viscosity covered his lawn and garden, his gray pants and canvas shoes, with spatters, globs and blotches of an irrepressible bloody dew....

With the appearance of blood in the water pipes, the town’s small hospital staff fled, citing a conflict of interest. And with great regret, the Mine Museum closed. The few visitors who did come, after the news got out, were reluctant to park their cars and then walk 25 yards through sticky, scarlet clots to the Museum entrance. In high winds the clots moved, like tumbleweeds of blood. A bridge was built, to accommodate these tourists; but the gluey blobs continued to mass and ooze on the threshold and pile up against the Museum windows. Beings not used to it found this offensive. With cessation of the tourist trade, the town’s residents also realized the market shelves had grown quite bare; no food had been delivered for weeks. At this point the Town Council voted to become officially self-sufficient. Indeed, with blood flowing freely through all the town’s plumbing, from home faucets, from drinking fountains in banks and gas stations and even the dusty park, most beings had become quite satisfied with this diet....

Some worried about the town’s isolation. Incoming roads were silent, mail to and from the outside world ceased. Rarely, a small private airplane flew over in the late afternoon, attempting colored postcard shots of the Pit; but these were sensationalists, who never landed, who were not interested in the ordinary, daily life of the town. In a lonely show of spirit, the postmaster and

equally enormous outpourings of nails, ballbearings, screws, the aforementioned lead bullets, and office paper clips. Car windshields and batteries alternated with hand grenades and gasmasks. At one point cigarette lighters flowed out at the rate of 1,523 per minute in precise alternation with 1,523 cans of lighter fluid; this was troublesome when they ignited each other (due to worker error) and the entire level erupted in a blazing inferno of metallic flames reaching almost to the Pit's rim. It burned for three nights and three days. Untold numbers of workers were lost, along with the tragic destruction of 8,632,948 cans of lighter fluid and 8,632,948 cigarette lighters.

When the smoke cleared, the Pit revealed walls of char and molten rivulets; a season's rain was needed to wash down the blackness. This was a difficult time. The fire had sealed over, cauterized the hundreds of thousands of productive little holes from which such great abundance had recently poured. The earth was streaked with hardness, a surface meld of alloys from so many stray bullets, gears, paper clips, cigarette lighters, etc. Newly recruited workteams went down into the Pit to dig with pickaxes and sledgehammers. As they shattered, uprooted, peeled back this fused metalloid carapace from large scarred flanks and thighs of the damaged inner hole, they uncovered raw blotches of more disgusting things: layers upon layers of half-corroded used sanitary napkins, douche bags, enema hoses and syringes, broken rotten teeth, and the overwhelming stench of something dead. As before, but with increased efficiency, these nauseating items were gathered into large heaps and disposed of immediately. (The death smell of course lingered until the production of aerosol cans.) And then around the edges of these picked scabs, as it were, from around the nocturnal fringes of such terrible scars and unmentionable uses, something new began to ooze. A gooey substance, pellucid green in color. Shyly at first, and then with increasing ebullience, it crept and flowed and jiggled over the lower Pit surface, covering over the recent devastation like an innocent vegetation or spring grass. Something about it invited tasting. Several workers vomited at the thought. But then one, then another, then another and another, bent over and dipped a delicate forefinger in the happy green substance overwhelming their rubber boots, now, to the knees; and tasted. And found it good.

Lime gelatin.

It was mid-century. A difficult period had been experienced, but a challenging one...

Then the deep well of Ink turned red viscid red; when managers went down to test it, their pens clogged, or the words they wrote all looked like death

Mythologies describing pre-agricultural times from cultures as divergent as African, Native American, and Hebraic tell of human beings at one time living in balance on the Earth. The western world claims at least five traditions that describe an earlier, better period: the Hebrew Garden of Eden, the Sumerian Dilmun, the Iranian Garden of Yima, the Egyptian Tep Zepi, and the Greek Golden Age. Ovid's words in *Metamorphoses* are among the most cited and most Revealing.

Penalties and fears there were none, nor were threatening words inscribed on unchanging bronze; nor did the suppliant crowd fear the words of its judge, but they were safe without protectors. Not yet did the pine cut from its mountain tops descend into the flowing waters to visit foreign lands, nor did deep trenches gird the town, nor were there straight trumpets, nor horns of twisted brass, nor helmets, nor swords. Without the use of soldiers the peoples in safety enjoyed their sweet repose. Earth herself, unburdened and untouched by the hoe and unwounded by the ploughshare, gave all things freely.

Most of these mythic legends go on to tell of a "fall" consistently depicted as a lowering of the quality of human character and culture. In recent decades such stories may have appeared to us as quaint allegories, bedtime stories, or the stuff of a good film. But today, from our situs within the psychological and ecological crises of western civilization, these stories become dreams so transparent we barely need to interpret them. According to myths of the Bantu of southern Africa, God was driven away from the Earth *by humanity's insensitivity to nature*. The Yurok of northern California say that at a certain point in history, *people disrupted nature's balance* with their greed. The Biblical story of Eden tells of a great Fall when Adam and Eve *removed themselves from "the Garden"* and came to know evil.

In his work with survivors of post-traumatic stress, psychotherapist and author Terry Kellogg emphasizes the fact that abusive behaviors whether we direct them toward ourselves, other people, or other species are not natural to human beings. People enact such behaviors because *something unnatural has happened to them* and they have become damaged. With this important insight in mind, we might consider that the "fall" described in myths around the world was not a preordained event destined to occur in the unfoldment of human consciousness, as some linear-progressive New Age thinkers posit; nor was it the result of what the Bible terms "original sin," which carries with it the onus of fault and blame. We might consider that this historic alteration in

our nature, or at least in how we express our nature, came about as the result of *something unnatural that happened to us*.

What could this “something” be? Because we are creatures who were born to live in vital participation with the natural world, the violation of this participation forms the basis of our *original trauma*. This is the systemic removal of our lives from our previously assumed elliptical participation in nature’s world from the tendrils of earthy textures, the seasons of sun and stars, carrying our babies across rivers, hunting the sacred game, the power of the life force. It is a severance that in the western world was initiated slowly and subtly at first with the domestication of plants and animals, grew in intensity with the emergence of large-scale civilizations, and has developed to pathological proportion with mass technological society until today you and I can actually live for a week or a month without smelling a tree, witnessing the passage of the moon, or meeting an animal in the wild, much less knowing the spirits of these beings or fathoming the interconnections between their destinies and our own. Original trauma is the disorientation we experience, however consciously or unconsciously, because we do not live in the natural world. It is the psychic displacement, the exile, that is inherent in civilized life. It is our homelessness.

Barbara Mor: Here: a small history of a mining town in the american southwest: warren bisbee az (1985)

From the top rim downward, sheer cascades of colors: mauve, gold, rust, purple, pink, silver, blue, incandescent turquoise. Streaks of orange, streaks of fire, yellow streaks of toxic arsenic. Radioactive greens of lime and fungus. Each color spilled over the others, in corroded terraced levels, channeled by erosion, avalanched by rain, crusted, broken open, merged; each geologic texture, as though alive, crawling over the variegated lumps and rubble of the earthly flesh that came before. And over this, the solid spills of individual rocks, orthorhombic crystals, dredging gears, rusted-out elbows, coils of wire, buttons, nails, hair curlers, stray lead bullets, all runneling, flowing in geological slow motion one over another down to the center of the hole. Deep, deep down. The entire technological history of the Pit was thus laid bare to any observer, in concentric layer after layer, vast polychronic slide upon slide, sloping down from the first simple surface diggings, by hand and stick, of the precivilized beings, immemorial years ago, downward through sediments of beauty, sediments of grief, sediments of nothing very important or useful,

sediments of historical overthrow, one solid layer of crushed bones; and then further down the notable sediments of great wealth and petrochemical power, sediments of capital gains, sediments of wrapping paper, one solid sedimentary level each of glass, electrical conducting alloy, and stockpiled war material...

When first civilized beings arrived in the region, in wagons and on horseback, they found indigenous naked creatures squatting in the dirt, digging up small geological objects with bare hands and pointed sticks. Thus the Pit’s origin, in what was then only a slight depression of the earth, a sandy little dip. The objects sought by the natives were simple gem stones, turquoise, azurite, malachite, roughly polished and used ornamentally. In the childlike mental grasp of these early beings there was no concept of serious mining, a factor which helped account for their elimination....

With settlement, mining began in earnest. Men came from everywhere, attracted by the adventure. The Pit grew into the largest intentional hole on the earth’s surface. Innovators, in the early years, introduced various subterranean approaches to the extraction of ores from earth, but the straightforward digging of a hole, deeper and deeper into the ground, always seemed the most expeditious method for this terrain. Several hundred males, equipped with picks and shovels, simply began digging; as the hole grew, timbers were used to shore up the higher levels of dirt, and these shorings congealed into a circumference of terraces. Later, tracks were built, for railcars, and mules brought in to haul them; deeper down, around and around; the workforce grew from a few hundred to thousands. When groundwater seeped into working levels, as it did more often at greater depths, giant sponges were brought in to soak up the intruding fluids. When water flooded in, violently, without warning, drowning hundreds of workers, and burying hundreds more beneath tons of collapsed earth, the sponges were hooked up behind the mule-drawn railcars and dragged down and around the wet circumference, gradually soaking up the waters. The sponges were periodically wrung out by giant rollers (similar to old-fashioned washingmachine wringers), into the railcars, and the water hauled by more patient mules around and upward to the dry surface; the method was as simple as it was efficient. Drowned bodies were usually soaked up also, lodging in the sponge holes, and removed by the same process; if not, the bones were extracted by shovels from dried sediments at a later date. At great depths, the sponges were working constantly, and pipe systems were eventually installed to transport the fluids, which at some point became quite valuable.

The first substances ordinary gold, silver, copper. Gears. When the legendary gear ran out, no problem. It was followed in quick succession by